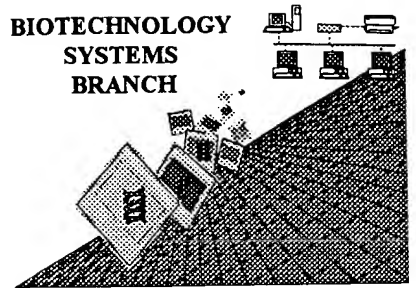


Stole

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/105,117B
Art Unit / Team No. : 1652
Date Processed by STIC: 12/31/98

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

5 file

1652

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/105,117B

DATE: 12/31/1998
TIME: 19:03:44

Input Set: I105117B.RAW

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

New format

Does Not Comply
Corrected Diskette Needed

1 <110> Vrljik, Marina
2 Eggling, Lothar
3 Sahm, Hermann
4 <120> PROCESS FOR HTE MICROBIAL PRODUCTION OF AMINO ACIDS BY
5 BOOSTED ACTIVITY OF EXPORT CARRIERS
6 <130> fj122 table 1
7 <140> US/09/105,117B
8 <141> 1998-06-17
9 <150> PCT/DE96/02485
10 <151> 1996-12-18
11 <150> 195 48 22.0
12 <151> 1995-12-22
13 <160> 3
14 <170> PatentIn Ver. 2.0 - beta

ERRORED SEQUENCES FOLLOW

15 <210> 2
E--> 16 <211> 3002
17 <212> DNA
18 <213> Corynebacterium glutamicum
19 <400> 2
20 tabgstaac gacttccaca atgagacgga ccgggttaag gacgcccgt tcttcacttt 60
E--> 21 ttg0gactt ggaaaagtct tcattgattc cggcgttagg gagctaacga cgtagttgct 120
E--> 22 gccg0ggaad vvaagacac tcagatcgat ctctagatct aaggtccgag gtagcaacgg 180
E--> 23 ttatgtagcc ac00trasr srwrwymtca gttaccata gagtagctcc tcctagtga 240
E--> 24 gaggacgaaa atcgtaacct cgtcgaa00a dvgakmaacc aaagcccttc ttcaggggtt 300
E--> 25 ggttccggag ccgcttaacg gattgggtttt ggaaggcg00 tgwgrrragg agctgccctg 360
E--> 26 ttacctatgc gcggacgcgg ggtgtcctgg tagctgcgag ggcaggtcca g0svsvrrrg 420
27 vgdvrgddtg ccagaacttc gtgtagaac cctggcttcg cattctgccc gtagcgtcgg 480
E--> 28 gttagatc0r dvdkgrvmaa wdaaagggtta gttggtacat ccgtaggggcg ttactcccc 540
E--> 29 aacgttaccg gttcaccgcg ta0kgdvmya drstaahrnc caaggttcaa gatgatgaag 600
E--> 30 tgtagggcgg tgccctaate gaagtgccea atggcgagg0 tgvvcgavna rtvagatttt 660
E--> 31 gtagaggtgc ggcgtcgttc ctattacaca cgcaagtag aaggttcgag tcgca00vdg 720
32 rrsthadrte tcgcaacgag gtgggggttct tcgatggagc aacttgtgcc ctcttttgtt 780
E--> 33 acacctatc0 taggwsavnn wtsgcttaga cgcaactacc gctaccaatt gccctaaagt 840
E--> 34 cgttccgcag gtctatcaac gcg0sdanat argsaaaatc aaagacgaac gtcgttgttg 900
E--> 35 taaaaggcgc gacgaacgtg ttcctgaagt gggcg0ktav mkraavvgaa agccaacgaa 960
E--> 36 accggccaac ccacgcgcta tgggtgtgag ctgggtgcac tacgagctc0 takatrsvvr 1020
37 gvhhtcgaaa ttgcgcgact gattggcggc tcccccttta cctttccga ttcctccgag 1080
E--> 38 gaag00akvr svasssasag cttcgacgga agtagttact aactctcgtt tcacaggtca 1140
E--> 39 acttacccca agta0tgcct tcatcaatga ttgagagcaa agtgtccagt tgaatgggg 1200

why is "0" shown in the sequence? it is involved
use,
per
sequence
Rules.
Does this
represent
a gap
in the
sequence?

Per sequence Rules, "a sequence with a gap or gaps shall be presented as a plurality of separate sequences, with separate sequence identifiers, with the number of separate sequences being equal in number to the number of gaps."

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/105,117B

DATE: 12/31/1998

TIME: 19:03:44

Input Set: I105117B.RAW

W-->	40	tcatgaagct	sgdstdnmat	attaaacccat	gttaagaacc	aatcatttta	cttaagtact	1260
E-->	41	tccataggtc	acgatgggt00	mvgatcatgg	aaatcttcat	tacaggtctg	cttttggggg	1320
E-->	42	ccagtctttt	actgtccatc	gg00mtggas	sgaccgcaga	atgtactggt	gattaaacaa	1380
E-->	43	ggaattaagc	gcgaaggact	cattgcgggt	ct0nvvgkr	gavtctcgtg	tgtttaattt	1440
E-->	44	ctgacgtctt	tttgttcac	gccggcacct	tgggcgttga	tct00vcsdv	agtgvdtttg	1500
E-->	45	tccaatgccg	cgccgatcgt	gctcgatatt	atgcgctggg	gtggcatcgc	ttacct0sna	1560
	46	avdmrwwggy	gttatgggtt	gccgtcatgg	cagcgaaaga	cgccatgaca	aacaagggtg	1620
E-->	47	aagcgccaca	0wavmaakda	mtnkvagatc	attgaagaaa	cagaaccaac	cgtgcccgat	1680
E-->	48	gacacgcctt	tgggcgggtc	ggcgggt0ttv	ddtggsavgg	ccactgacac	gcgcaaccgg	1740
E-->	49	gtgcggtggg	aggtgagcgt	cgataagcag	cgggtttg0a	tdtrnrvrvv	svdkrvwgg	1800
E-->	50	aaagcccatg	ttgatggcaa	tcgtgctgac	ctggttgaac	ccgaatgcgt	atttggga00v	1860
W-->	51	kmmavtwnna	ydcgcgtttg	tgtttatcgg	cggcgtcggc	gcgcaatacg	gcgacaccgg	1920
E-->	52	acgggtggatt	tt0avggvga	ygdgrwgc	cgctggcgcg	ttcgcggcaa	gcctgatctg	1980
E-->	53	gttcccgtcg	gtgggtttcg	gcgcagc0aa	gaaaswvga	aagcattgtc	acgcccgtcg	2040
E-->	54	tccagcccca	aggtgtggcg	ctggatcaac	gtcgtcgtgg	c0asrskvw	rwnvvvanrt	2100
E-->	55	kctactggcg	taaccggtag	tttgactaca	actaccat	caaaagcgcc	caaaa0agtt	2160
	56	gtgatgaccg	cattggccat	caaactgatg	ttgatgggtt	agttttcgcg	ggvmtaakm	2220
	57	mgccttagcc	accggaagcg	ggtttacaac	tacggccgca	gcacccttta	gagtagctag	2280
E-->	58	cg00sdtaka	wngadhsdag	aggttgagcc	gcagctcttt	gaggttcaac	aactcactta	2340
E-->	59	gttccgacaa	caggtcgac0	adsnnsdnd	gagttgactg	cttcgtgggt	agttacgtga	2400
E-->	60	ccagtgccat	aggcgcgga	tgagaggaac	0vssagastv	tdagyggagc	gcgtcgtggg	2460
E-->	61	tacgttcgcg	gtagacgcgt	tcactgacgg	gcgcaaggac	ccgcta0rvw	aamasgraca	2520
	62	gtaactcgaa	cgcttggtat	agttataaca	agtgcaggt	gtacgggagt	ctgtccct00	2580
W-->	63	dnkrvmdnnv	nmgssgaatg	ggaccgaccg	cgcccttggg	agaccttaag	gtagctctat	2640
E-->	64	aaacaggcac	tcgtc00kgs	arsggdykdt	cgggacgcgt	tcaccactct	ttcgttactg	2700
E-->	65	cggttctggt	aacaaccgtc	gactgacgtt	0gasavggnn	aasgttcaag	agtggcagta	2760
E-->	66	gcgggccaag	gaggtgggtt	gctaattact	accttatcga	acc0ngddgv	wrnsgsact	2820
E-->	67	acttagtctt	cgcccgtcgg	gaggaggcgg	tacttgagtc	ggcggaggcg	acactc0hcg	2880
	68	amaaatgaga	cctggcatcc	ttctttatgg	gtgcatttct	cggaaaggtc	tgctgtgtta	2940
E-->	69	cagtgc0gys	sgvyakgsav	drgttacgca	tgtaccaaag	aaggtttcct	catagaaymt	3000
	70	td						3002

of continuous string of sequence data.

Input Set: I105117B.RAW

Line	? Error/Warning	Original Text
16	E Input 3002, Calc# Bases 2953 differ	<211> 3002
21	E Number of Bases conflict w/ Running Total	ttg0ggactt ggaaaagtct tcattgattc cggcgtta
21	E Wrong Nucleic Acid Designator	ttg0ggactt ggaaaagtct tcattgattc cggcgtta
22	E Wrong Nucleic Acid Designator	gccg0rgaad vvacagacac tcagatcgat ctctagat
23	E Wrong Nucleic Acid Designator	ttatgtagcc aca0dtrasr srwrwymtca gttaccca
24	E Wrong Nucleic Acid Designator	gaggacgaaa atcgtaccct cgtcgaac0d dvgakmaa
25	E Wrong Nucleic Acid Designator	ggttccggag ccgcttaacg gagggtttt ggaaggcg
25	E Wrong Nucleic Acid Designator	ggttccggag ccgcttaacg gagggtttt ggaaggcg
26	E Wrong Nucleic Acid Designator	ttacctatgc gcggacgcgg ggtgtcctgg tagctgcg
28	E Wrong Nucleic Acid Designator	gtagatc0r dvdkgvrmaa wdaaagggtta gttggtac
29	E Wrong Nucleic Acid Designator	aacgttaccg gttcaccgcg ta0kgdvmya drstaahr
30	E Wrong Nucleic Acid Designator	tgtaggcgcg tgccctaatac gaagtgccta atggcgag
30	W "N" or "Xaa" used: Feature required	tgtaggcgcg tgccctaatac gaagtgccta atggcgag
31	E Wrong Nucleic Acid Designator	gtagaggtgc ggcgtcgttc ctattacaca cgcaagt
31	E Wrong Nucleic Acid Designator	gtagaggtgc ggcgtcgttc ctattacaca cgcaagt
33	E Wrong Nucleic Acid Designator	acacctatc0 taggwsavnv wtsgcttaga cgcaacta
33	W "N" or "Xaa" used: Feature required	acacctatc0 taggwsavnv wtsgcttaga cgcaacta
34	E Wrong Nucleic Acid Designator	cgttccgcag gtctatcaac gcg0sdanat argsaana
34	W "N" or "Xaa" used: Feature required	cgttccgcag gtctatcaac gcg0sdanat argsaana
35	E Wrong Nucleic Acid Designator	taaaaggcgc gacgaacgtg ttcctgaagt gggcg0kt
36	E Wrong Nucleic Acid Designator	accggccaac ccacgcgcta tgggtgtgag ctgggtgc
38	E Wrong Nucleic Acid Designator	gaag00akvr svasssasag cttcgacgga agtagtta
38	E Wrong Nucleic Acid Designator	gaag00akvr svasssasag cttcgacgga agtagtta
39	E Wrong Nucleic Acid Designator	acttacccca agta0tgcct tcatcaatga ttgagagc
40	W "N" or "Xaa" used: Feature required	tcatgaagct sgdstdnmat attaaacat gttaagaa
41	E Wrong Nucleic Acid Designator	tccataggtc acgatggt00 mv gatcatgg aaatcttc
41	E Wrong Nucleic Acid Designator	tccataggtc acgatggt00 mv gatcatgg aaatcttc
42	E Wrong Nucleic Acid Designator	ccagtctttt actgtccatc gg00mtggas sgaccgca
42	E Wrong Nucleic Acid Designator	ccagtctttt actgtccatc gg00mtggas sgaccgca
43	E Wrong Nucleic Acid Designator	ggaattaagc gcgaaggact cattgcggtt ct0nvvkg
43	W "N" or "Xaa" used: Feature required	ggaattaagc gcgaaggact cattgcggtt ct0nvvkg
44	E Wrong Nucleic Acid Designator	ctgacgtctt tttgttcac gccggcacct tgggcgtt
44	E Wrong Nucleic Acid Designator	ctgacgtctt tttgttcac gccggcacct tgggcgtt
45	E Wrong Nucleic Acid Designator	tccaatgccg cgccgatcgt gctcgatatt atgcgctg
45	W "N" or "Xaa" used: Feature required	tccaatgccg cgccgatcgt gctcgatatt atgcgctg
47	E Wrong Nucleic Acid Designator	aagcgccaca 0wavmaakda mtnkvagatc attgaaga
47	W "N" or "Xaa" used: Feature required	aagcgccaca 0wavmaakda mtnkvagatc attgaaga
48	E Wrong Nucleic Acid Designator	gacacgcctt tgggcggttc ggcggt0ttv ddtggsav
49	E Wrong Nucleic Acid Designator	gtgcgggtgg aggtgagcgt cgataagcag cgggtttg
49	W "N" or "Xaa" used: Feature required	gtgcgggtgg aggtgagcgt cgataagcag cgggtttg
50	E Wrong Nucleic Acid Designator	aaagcccata ttgatggcaa tcgtgctgac ctggttga
50	E Wrong Nucleic Acid Designator	aaagcccata ttgatggcaa tcgtgctgac ctggttga
51	W "N" or "Xaa" used: Feature required	kmmavtwnna ydcgcgtttg tgtttatcgg cggcgtcg
52	E Wrong Nucleic Acid Designator	acggtggatt tt0avggvga ygdtgrwgcg cgctggcg
53	E Wrong Nucleic Acid Designator	gttcccgcgt gtgggtttcg gcgcagc0aa gaaaswvg
54	E Wrong Nucleic Acid Designator	tccagcccca aggtgtggcg ctggatcaac gtcgtcgt
54	W "N" or "Xaa" used: Feature required	tccagcccca aggtgtggcg ctggatcaac gtcgtcgt
55	E Wrong Nucleic Acid Designator	kctactggcg taaccggtag tttgactaca actaccca
58	E Wrong Nucleic Acid Designator	cg00sdtaka wngadhsdag aggttgagcc gcagtcct
58	E Wrong Nucleic Acid Designator	cg00sdtaka wngadhsdag aggttgagcc gcagtcct
58	W "N" or "Xaa" used: Feature required	cg00sdtaka wngadhsdag aggttgagcc gcagtcct

VERIFICATION SUMMARY
PATENT APPLICATION US/09/105,117BDATE: 12/31/1998
TIME: 19:03:44

Input Set: I105117B.RAW

Line	Error/Warning	Original Text
59	E Wrong Nucleic Acid Designator	gttccgacaa caggtcgac0 adsnnstdsnd gagttgac
59	W "N" or "Xaa" used: Feature required	gttccgacaa caggtcgac0 adsnnstdsnd gagttgac
60	E Wrong Nucleic Acid Designator	ccagtgccat aggcgcggca tgagaggaac 0vssagas
61	E Wrong Nucleic Acid Designator	tacgttcgcg gtagacgcgt tcaactgacgg gcgcaagg
63	W "N" or "Xaa" used: Feature required	dnkrvmddnv nmgsngaag ggaccgaccg cgcccttg
64	E Wrong Nucleic Acid Designator	aaacaggcac tcgtc00kgs arsggdykdt cgggacgc
64	E Wrong Nucleic Acid Designator	aaacaggcac tcgtc00kgs arsggdykdt cgggacgc
65	E Wrong Nucleic Acid Designator	cggttctggt aacaaccgct gactgacgtt 0gasavgg
65	W "N" or "Xaa" used: Feature required	cggttctggt aacaaccgct gactgacgtt 0gasavgg
66	E Wrong Nucleic Acid Designator	gcgggccaag gaggtgggtt gctaattact accttacc
66	W "N" or "Xaa" used: Feature required	gcgggccaag gaggtgggtt gctaattact accttacc
67	E Wrong Nucleic Acid Designator	acttagtctt cgcccgctcg gagggaggcg tacttgag
69	E Wrong Nucleic Acid Designator	cagtgc0gys sgvyakgsav drgttacgca tgtaccaa